

Title (en)

Multi stage steam turbine for power generation

Title (de)

Mehrstufige Dampfturbine zur Energieerzeugung

Title (fr)

Turbine à vapeur à plusieurs étages pour la production d'énergie

Publication

EP 3040525 A1 20160706 (EN)

Application

EP 15290001 A 20150105

Priority

EP 15290001 A 20150105

Abstract (en)

The invention relates to a steam turbine (10) having a plurality of stages comprising a plurality of points of admission (12) connected to a plurality of admission lines (21), a feed line (20) connected to the plurality of admission lines (21) and at least one extraction line (22), extending from an intermediate stage of the steam turbine (10), for extracting steam from the steam turbine (10). The at least one capacity line (24) fluidly connects an admission lines (21) and at least one extraction line (22) so as to bypass the steam turbine (10), and is further configured to increase a swallowing capacity of the steam turbine (10) as measured from the feed line (20) upstream of the capacity line (24) compared to the plurality of points of admission (12).

IPC 8 full level

F01K 7/16 (2006.01); **F01K 7/04** (2006.01); **F01K 17/00** (2006.01)

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F01K 7/04 (2013.01 - EP RU US); **F01K 7/165** (2013.01 - EP US); **F01K 13/02** (2013.01 - RU US); **F01K 17/00** (2013.01 - EP US)

Citation (search report)

- [IA] FR 2426158 A1 19791214 - BBC BROWN BOVERI & CIE [CH]
- [A] US 2014366537 A1 20141218 - HELLWEG STEPHAN [DE], et al
- [A] JP 2013151876 A 20130808 - TOSHIBA CORP

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3040525 A1 20160706; **EP 3040525 B1 20200826**; CN 105756721 A 20160713; CN 105756721 B 20200414; RU 2015157263 A 20170706;
RU 2015157263 A3 20190606; RU 2709895 C2 20191223; US 10533460 B2 20200114; US 2016194982 A1 20160707

DOCDB simple family (application)

EP 15290001 A 20150105; CN 201610001509 A 20160105; RU 2015157263 A 20151230; US 201514967955 A 20151214